



California Department of Food and Agriculture Division of Measurement Standards

Integrated Energy Policy Report Workshop April 14, 2009



Division Mission Statement

Preserve and defend the measurement standards essential in providing the citizens a basis of value comparison and fair competition in the marketplace



Authority

Authority to regulate Weights and Measures and Fuel Products is found in Division 5 of the California Business and Professions Code





Alternative Fuels

CDFA Responsibilities

- Division of Measurement Standards (DMS) role in alternative fuel development
 - ✓ Ensure Measurement Traceability
 - ✓ Promote Uniform Requirements and Practices
 - Ensure Consumers Get What They Pay For
 - Level Playing Field in the Marketplace
 - Harmonize with International Standards



Commercial Measuring Device

A device used for ascertaining the measure of any commodity or thing which is sold on the basis of measure; or the determination of the measure of any commodity or thing upon which determination a charge for service is based.





Alternative Fuels

Division Responsibilities

- Type Evaluation
 - National and California Type Evaluation Program
- Device Accuracy
 - CA Device Compliance Program
- Fuel Quality, Advertising, Labeling, and Quantity
 - > CA Petroleum Products Program
- State / County Relationship



CA Petroleum Products Program

- National Standards Organizations Participation
 - Establish uniform standards to enhance consumer protection
 - Foster fair competition
 - Facilitate economic growth and trade



Standards Organizations

❖ ASTM International, Inc.



Society of Automotive Engineers



National Institute of Standards and Technology

National Institute of Standards and Technology











- Established Fuel Standards
 - The Department must adopt recognized consensus organization standards for compression-ignition engine fuels
- Biodiesel Blend Standards
 - Current regulation Must meet ASTM Diesel
 Fuel Specification D975
 - ASTM recently modified D975 to limit biodiesel content to 5%



- New ASTM Standard (D7467-08) for Biodiesel Blends of 6 to 20 volume percent
 - CDFA in formal rulemaking to modify existing regulations
- B21 to B100 Biodiesel as a motor fuel
 - As a result of recent changes, these blends cannot be used as a legal finished fuel



Developmental Fuel Variance

- Current law allows for controlled sales and limited use of new fuels
 - Provides for fleet testing of new fuels for standards development
 - CDFA has granted 50 variances for this purpose
 - Additional legislation desired to facilitate record review (B&P Code 13570)



High Concentration Blends

- CA distributors and customers want higher blends of Biodiesel Fuel
 - Currently there is no consensus standard
 - CDFA plans to begin method development for these blends and present the work to ASTM
- Biodiesel and Biodiesel Blend Labeling
 - Federal and State dispenser labeling is inconsistent
 - CDFA plans to modify rules to be consistent with Federal requirements



Biodiesel Blending Practices

Blending Issues

- B99 rather than B100 being used for the production of lower concentration levels
- This pre-dilution practice is inconsistent with current regulations
 (Section 4147(1))

Splash Blending Technique

- Can result in non-homogeneous blends
- Other techniques may be required to obtain consistent blend ratios



Biodiesel Dispenser Issues

- Fuel dispensers must be type approved for the product family they are dispensing
- Diesel dispensers are approved to dispense biodiesel blends up to 20 volume percent
- At this time, only 2 manufacturers have type approved commercial dispensers for high concentration biodiesel blends
- Other non weights and measures issues:
 - Not Underwriters Laboratories approved
 - State and Local Fire Marshals may grant use permits



Underground Storage Tanks (UST)

State Water Resources Control Board regulations require:

- Design and construction of UST and piping be approved by an independent testing laboratory
- System components made of or lined with materials compatible with hazardous materials to be stored
- Approved UST components must include a list of compatible products tested and their measured permeation rate

SB 1574 (2008 session)

- Would have allowed biodiesel blends up to B20 to be stored in UST on an interim basis
- Governor Schwarzenegger vetoed SB 1574
- Storage of alternative fuels needs to be addressed





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